SOV/137-58-8-17455

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 179 (USSR)

AUTHORS: Shul'ts, A.L., Tsyganov, G.A.

TITLE: Polarization During the Electrolytic Deposition of Nickel in the

Presence of Additives in the Electrolyte (Polyarizatsiya pri elektroosazhdenii nikelya v prisutstvii dobavok k elektrolitu)

PERIODICAL: Izv. AN UzSSR. Ser. khim. n., 1957, Nr 4, pp 41-53

ABSTRACT: The effect of additions of KCNS, Na2S2O3-5H2O, and thio-

urea introduced into the nickel electrolyte (NiSO₄ 7H₂O, 1N; Na₂SO₄·10H₂O, 100 g/liter; H₃BO₃, 20 g/liter) on polarization in the electrolytic deposition of Ni was studied. It was established that the polarization curve of the electrolytic deposition of Ni in general consists of three sectors, one with predominance of the separation of Ni, one with evolution of H, and one with the establishment of a stationary potential of the Ni electrode in the given electrolyte. The introduction of additives into the electrolyte affects the position and shape of the said sectors of the polarization curve and, therefore, affects the

Card 1/2 sectors of the polarization curve and, therefore, all states of the polarization curve of the electrolytic

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Polarization During the Electrolytic Deposition of Nickel (cont.)

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deposition of Ni. Anion-type additives (KCNS, Na₂S₂O₃·5H₂O) cause the displacement of the sector of the polarization curve relative to the electrolytic deposition of N₁ corresponding to the process of the predominant separation of Ni in the direction of less negative values of the potential. Additives of the molecular type (thiourea) displace this sector of the polarization curve of electrolytic deposition of N₁ towards the more negative values of the potential. The effect of the additives in the electrolyte on the polarization during the electrolytic deposition of N₁ is explained by their adsorption on the surface of the cathode, as a result of which complementary ionic and dipolar layers are formed on the cathode-electrolyte interface which promote or impede the processes. Bibliography: 39 references.

L.A.

- 1. Nickel--Electrodeposition
- 2. Electrolytes-Properties
- 3. Nickel---Polarization

Card 2/2

MIRZAKARIMOV, A.M.; TSYGANOV, G.A.

Hydrogen everveltage on nickel electrodepositions in the presence of alkaleids. Uzv. khim. shur. no.2:29-33 '58. (MIRA 11:8)

1.Institut khimii AN USSSR. (Overveltage) (Hydrogen) (Nickel plating)

TUGOV, N.I.; TSYGAMOV, G.A.

Hydrogen and exygen everveltage on antimony electrode. Uzb.

khim. zhur, no.2:35-40 '58. (MIRA 11:8)

1.Institut khimii AH UzSSR.
(Overveltage) (Antimeny) (Electrochemistry)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310014-2"

SHUL'TS, A.L.; TSYGANOV, G.A.

Sulfur containing additives used in electrolytic solutions from which nickel is deposited as a cathodic reduction product. Dokl. (MIRA 11t6)

AN Uzb. SSR no.3:35-39 '58.

1. Institut khimii AN UzSSR. Predstavleno akademikom AN UzSSR S. Yu. Yunusovym. (Nickel plating)

TSYGANOV, G.A.; MIRZAKARIMOV, A.M.

Oxygen overvoltage curve of nickel electrode in alkaline solutions.
Uzb. khim. zhur. no.3:65-68 '58. (MIRA 11:9)

1.Institut khimii AN UzSSR.
(Oxygen) (Overvoltage) (Nickel)

CHERNILOVSKAYA, A.I.; TSYGAHOV, G.A.

Separation coefficient for simultaneous electrodeposition of iron group metals. Uzb. khim. zhur. no.4:25-32 '58.

(MIRA 11:12)

1.Institut khimii AN UzSSR.
(Electroplating)

SOV/137-59-3-7175

THE RESERVE THE PROPERTY OF TH

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 319 'USSR)

AUTHORS: Mirzakarimov, A. M., Tsyganov, G. A.

TITLE: On the Effect of Alkaloids on Polarization During Electrolytic Precip-

itation of Nickel (O kharaktere vliyaniya alkaloidov na polyarizatsiyu

pri elektroosazhdenii nikelya)

PERIODICAL: Dokl. AN UzSSR, 1958, Nr 5, pp 39-42

ABSTRACT: The authors investigated the effect of alkaloids (A) on the cathode

potential in the electrolytic deposition of Ni from a sulfate solution at 40°C, pH 4.8-5.2, and a cathode cd of 1.10^{-5} - 1.10^{-2} a/cm². The concentration of A in the solution was 1 g/liter. Nicotine and cytisine increase the cathodic polarization (CP) with all cathode cd investigated. Thebaine, anabasine, hyoscyamine, thalatisamine, and delsine produce an increase in CP with cathode cd of 3.10^{-4} a/cm² and depolarize the cathode at lower cathode cd. Hormine, papaverine, and aconotine have the same effect on CP, but the transition from the

increase in CP to its depolarization occurs at a cathode cd of

 3.10^{-3} a/cm², and the depolarization of the cathode at a lower cathode

Card 1/2 cd is more pronounced. The cathode depolarization is explained by

On the Effect of Alkaloids on Polarization During Electrolytic Precipitation (cont.)

the reduction of A, the polarization by the effect of A on the double electric layer on the cathode.

N.K.

Card 2/2

TSYGANOV, G.A.; TUGOV, N.I.

Rational methods of hydrometallurgical processing of mixed antimony ores. Uzb.khim.zhur. no.6:19-28 58. (MIRA 12:2)

1. Institut khimii AN UzSSR.
(Antimony ores)

(Hydrometallurgy)

TO SEE THE CONTRACT HERE WE WAS A SECRETARIST OF THE SECRETARIST OF TH

ADILOV, T.A.; ESYGANOV, G.A.

Depolarization in joint electrodeposition of cobalt and nickel on a rotating disk cathode. Dokl.AN Uz.SSR no.9:27-29 '58. (MIRA 11:12)

1. Institut khimii AN UzSSR. Predstavleno chlenom-korrespondentom AN UzSSR Kh.U.Usmanovym.
(Depolatization (Electricity)) (Electroplating)

IOSILEVICH, A.I.; TSYGANOV, G.A.

Separation coefficient during the electrodeposition of cobalt and nickel from electrolytes with different anions. Uzb.khim. zhur. no.1:43-49 159. (NIRA 12:6)

1. Institut khimii AN UzSSR. (Cobalt) (Nickel) (Electroplating)

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	30V/2216 56.	Squeabchantys po static details of the Fourth Conference on Elect- Trudy; [sbornik] (Transactions of the Fourth Conference on Elect- pochsmistry: Collection of Articles) Moscow, Izd-wo AN SSSI, 1959, 868 pp. Errata allp inserted. 2,500 copies printed. Sponsoring Agency: Akademiya nauk SSSR, Otdeleniye khimicheskikh	Editoria. Editoria Doard: A.M. Frunkin (Resp. Ed.) Academician, O.A. Testin Professor; S.I. Zhdanov (Resp. Secretary), M.K. Espinov. Professor; S.I. Zhdanov (Resp. Secretary), M.K. Espinov. Professor; Environs M. Kolotyrkin, Doctor of Chamical Sciences; V.V. Losev, P.D. Likovesev, Foofessor; Z.A. Solovysvas; V.V. Stender; Professor; and O.M. Foofessor; Z.A. Solovysvas; V.V. Stender; Professor; and O.M. Foofessor; Tech. Ed.: T.A. Frusakova.	interested for the state of the	Academ	ring Sin- on Group	2000 00 00 00 00 00 00 00 00 00 00 00 00	of a Side Anion in the Process of Chromium	Metrine H	of Borte Sulfurie	¢	
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TSYGANOV ... O. A. TUGOV. N. I.

Electrolysis of antimony in sodium sulfide solutions using powdered iron electrodes. Uzb. khim. zhur. no.2:36-51 '59. (MIRA 12:7)

1. Institut khimii AN UzSSR.
(Antimony) (Electrolysis)

MIRZAKARIMOV, A.M.; TSYCANOV, G.A.

Hydrogen overvoltage on active galvanic nickel deposits.
Uwb.khim.shur. no.4:29-33 '59. (MIRA 13:1)

(Overvoltage) (Nickel plating)

MURASHKINA, I.I.: TSYGANOV. G.A.

Direct cathode reduction of sparsely soluble compounds. Dokl. AN Uz.SSR no.5:37-39 '59. (HIRA 12:8)

1. Institut khimii AN UzSSR. Predstavleno akad. AN UzSSR S.Yu.Yunusovym.

(Lead chloride) (Reduction, Electrolytic)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310014-2"

IOSILEVICH, A.I.; TSYGANOV, G.A.

Mechanism of the influence of anions on the value of the distribution coefficient in the simultaneous electrodeposition of cobalt and nickel. Uzb.khim.zhur. no.5:45-49 159.

(MIRA 13:2)

1. Institut khimii AN UsSSR.
(Cobalt) (Nickel plating)

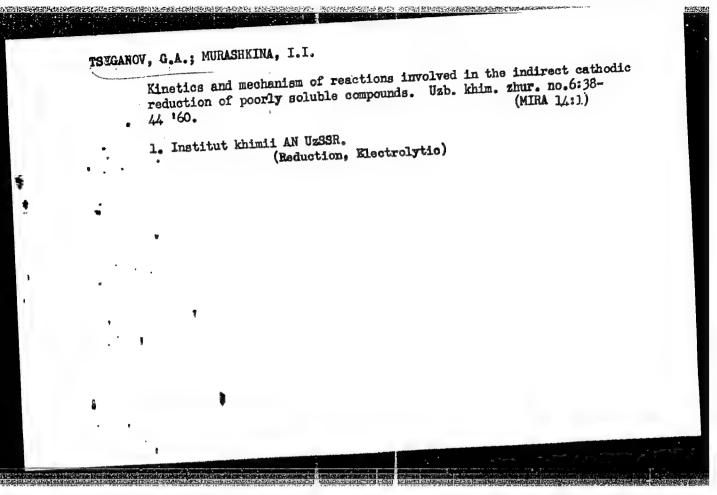
Overvoltage of hydrogen on nickel containing oxygen in alkaline solutions. Dokl. AN Uz. SSR no.7:25-27 '59. (MIRA 12:10)

1.Institut khimii AN UzSSR. Predstavleno akad. AN UzSSR S.Yu. Yunusovym. (Overvoltage) (Nickel)

IOSILEVICH, A.I.; TSYGANOV, G.A.

Effect of the conditions of electrolysis on the distribution coefficient during the simultaneous electrodeposition of cobalt and nickel. Uzb. khim. zhur. no.1:38-44 '60.(MIRA 14:4)

l. Institut khimii AN UzSSR. (Cobalt) (Nickel-plating)



BLAVATNIK, V.M.; TSYGANOV, G.A.

Simultaneous electrolytic separation of chlorine and oxygen from neutral and alkaline solutions of potassium chloride. Uzb.khim. zhur. 6 no.1:39-44 '62. (MIRA 15:3)

l. Institut khimii AN UzSSR.
(Chlorine) (Oxygen) (Electrolysis)

TSYGANOV, G.A.; MURASHKINA, I.I.

Kinetics and reaction mechanism underlying the cathodic reduction of sparingly soluble compounds. Uzb. khim. zhur. 9 no.4:51-53 '65. (MIRA 18:12)

1. Institut khimii AN UzSSR. Submitted June 17, 1964.

TUGOV, N.I.; TSYGANOV, G.A.

Hydrometallurgical method of preparing metallic antimony from concentrates. Uzb. khim. zhur. 7 no.2:17-21 '63. (MIRA 16:8)

1. Institut khimii AN UzSSR.
(Antimony—Metallurgy)

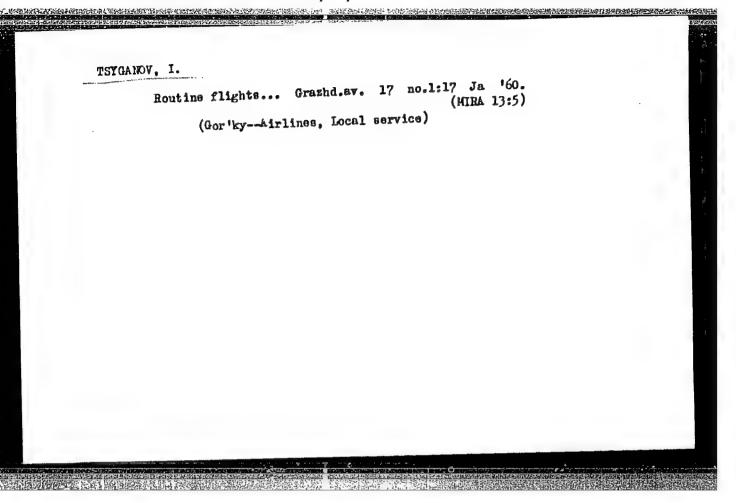
CHERNILOVSKAYA, A.I.; TSYGANOV, G.A.

Decomposition of mine and lead sulfide minerals by nitric acid solutions. Uzb.khim.zhur. 6 no.615-10 462. (MIRA 1612)

1. Institut khimii AN UzSSR.

(Zink sulfide) (Lead sulfide) (Nitric acid)

(Rostov-on-Don-Radar meteorology)	Experience in moteorological servicing of the regional dispatch' sorvice and utilization of the radar station "RUFCR" by the civil aviation weather station at Rostov-on-Don. Heteorological no.6:86-8 Je *57. (Rostov-on-DonNeteorology in aeronautics) (Rostov-on-DonRadar moteorology)
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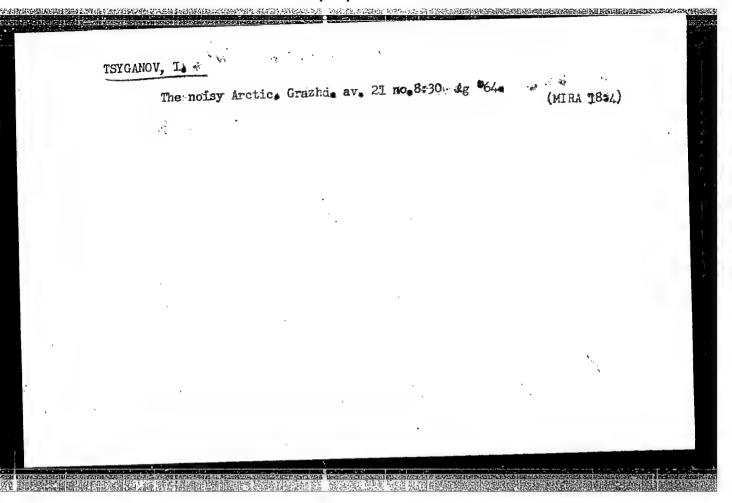


TSYGANOV, I.

Unused reserves. Fin.SSSR 18 no.9:71-72 S '57. (MIRA 10:10)

1. Zamestitel' nachal'nika upravleniya Gosstrakha po Rostovskoy oblasti.

(Rostov Province--Insurance)

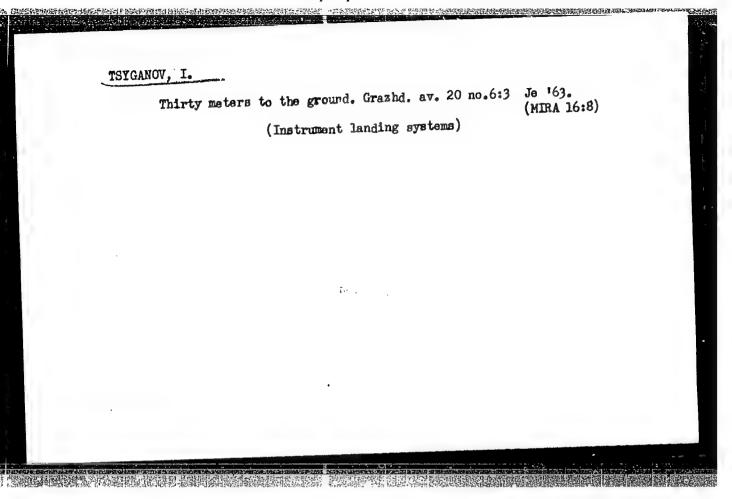


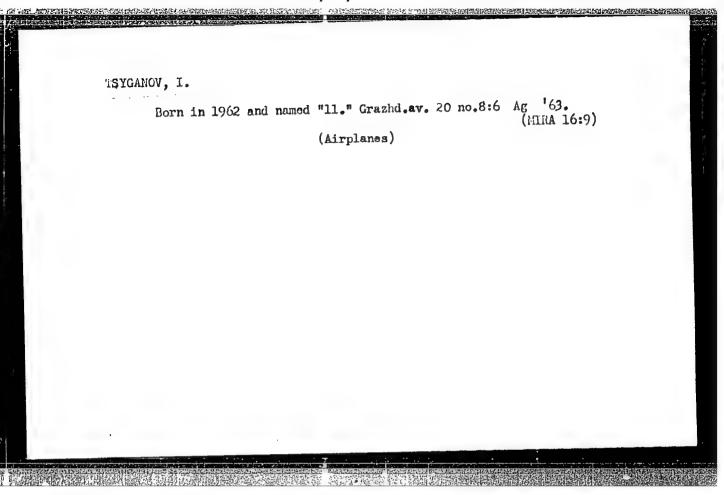
LYUTIKOV, V.; TSYGANOV, I.

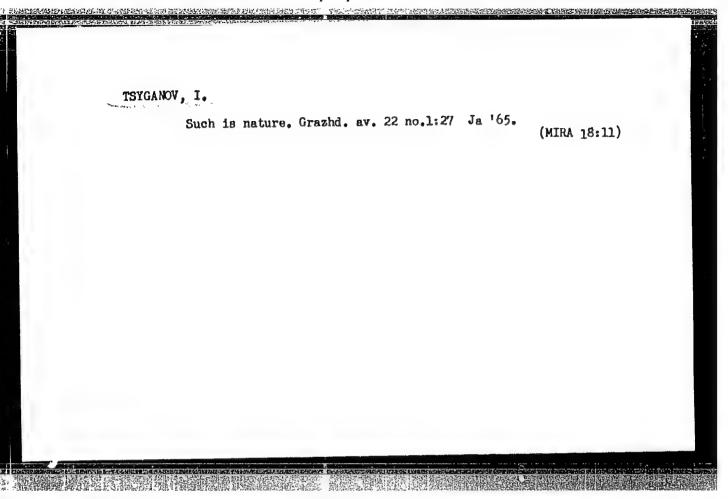
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18(6), 21(1)

sov/89-7-3-5/29

AUTHORS:

Savitskiy, Ye. M., Tylkina, M. A., Tsyganova, I. A.

TITLE:

The Phase Diagram of the System Zirconium - Rhenium

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 3, pp 231-235 (USSR)

ABSTRACT:

By means of the well-known radiographical and microscopical methods the melting point, the hardness, and the microhardness of the phases were measured. On the basis of these data the phase diagram of the zirconium - rhenium system was set up. In α -zirconium the range of the solid solution of rhenium amounts to ~0.5 % by weight at 800°C. At the eutectic transformation temperature the percentage increases to 2-3 % by weight. In β -zirconium at 1600°C 14.68 % by weight of rhenium and at the eutectic point of transformation at 500-600°C only 8 % by weight are dissolved. In alloys containing more than 4 % by weight of rhenium, a stable β -phase is found. At 1600°C and 25 % by weight of rhenium a eutectic forms. In alloys with a high zirconium content a metastable w-phase was found to exist. The solubility of zirconium in rhenium at 2500°C is less than 2 % by weight. Three chemical compounds are produced in the system by peritectic reactions: 1) At 2500°C: Zr5Re24 of the a-Mn-type

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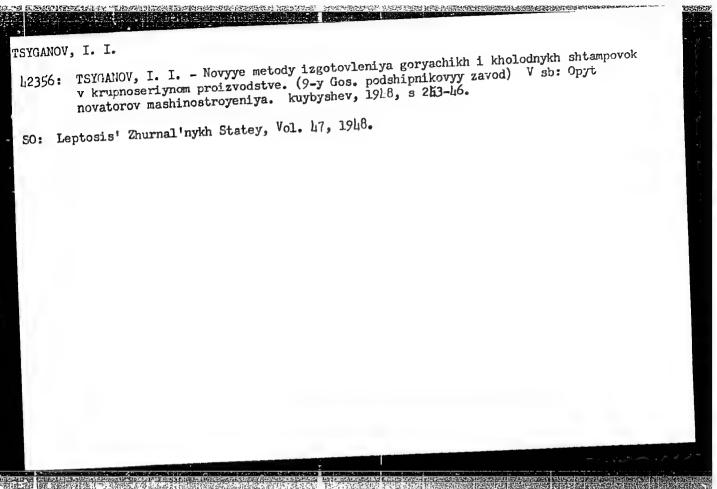
The Phase Diagram of the System Zirconium - Rhenium

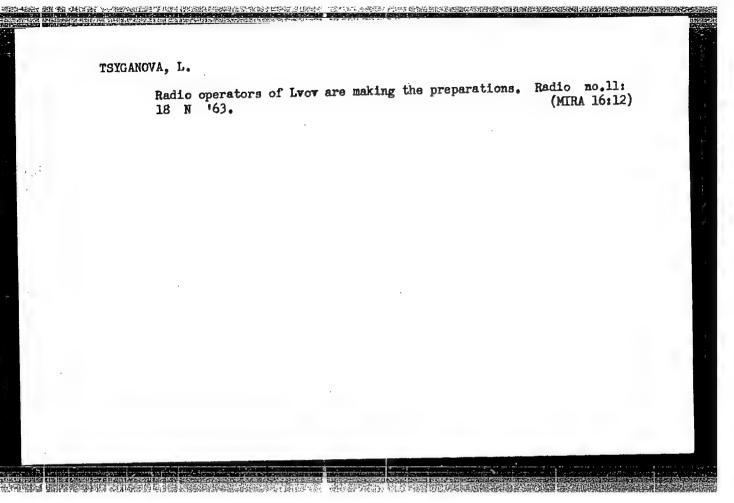
with volume-centered cubic lattice (a = 9.6 - 9.7 kX). Microhardness amounts to 1000 kg/mm². 2) At 2450°C: ZrRe₂ with hexagonal tightly bound lattice (a - 5.21 - 5.25 Å; c - 8.5 - 8.56 Å; c/a = 1.63). Microhardness 1200 kg/mm². 3) At 1900°C: Zr₂Re σ-phase type with tetragonal lattice (a = 10.12 Å; c = 5.42 Å; c/a = 0.535). Microhardness 700 - 800 kg/mm². The phase diagram and microhardness are shown graphically. Photographs are available for some of the ground sections. The radiographic investigations were carried out by P. I. Kripyakevich and Ye. I. Gladyshevskiy at the LGU. There are 7 figures, 1 table, and 8 references, 4 of which are Soviet.

SUBMITTED:

April 16, 1959

Card 2/2





USHAKOV, Pavel Nikolayevich; LYSYAKOV, Anatoliy Grigor'yevich;;
LITVINOV, D.A., kand.tekhn.nauk,retsenzent; TSYGANOV, M.A.,
inzh., retsenzent; OKOROKOV, A.A., inzh., red.; SMIRNOVA,
G.V., tekhn. red.

[Safety regulations in designing and operating hoisting cranes]
Tekhnika bezopasnosti pri ustroistve i eksplustatsii gruzopod"emnykh kranov. Moskva, Mashgiz, 1962. 217 p. (MIRA 15:9)
(Cranes, derricks, etc.—Safety regulations)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310014-2"

TSYGANOV, M.A.

Perfect organization of production is an important factor in the improvement of labor safety. Mashinostroitel' no.8:1-2 Ag '65. (MIRA 18:11)

1. Zaveduyushchi; otdelom okhrany truda TSentral'nogo komiteta professional'nogo soyuza rabochikh mashinostroyeniya.

Y 5°75 Y 757 Y 777 Y 77

TSYGANOV, M.A.

Improve working conditions of machinery-industry workers by all means. Mashinostroitel! no.10:1-3 '60. (MIRA 13:10)

1. Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya. (Machinery industry--Hygienic aspects)

High transferred construction of the state o

TSYGANOV, M.A., inzh.; TITOV, A.S., inzh.; SHASHKOV, A.N., kand.tekhn.nauk

Consultations on readers' questions. Svar. proizv. no.8:48 Ag
'62. (MIRA 15:11)

1. Otdel okhrany truda TSentral'nogo komiteta professional'nogo soyuza rabochikh mashinostroyeniya (for TSyganov). 2. Glavnoye upravleniye srednikh spetsial'nykh uchebnykh zavedeniy (for Titov).
3. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov (for Shashkov).

(Welding)

TSYGAROV, M.; MIKHAYLOVA, V.

Technological progress and industrial safety. Sov. profsoiuzy 16 no.19:33-36 0 '60. (NIRA 13:10)

1. Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya (for Tsyganov). 2. Tekhnicheskiy inspektor Tsentral'nogo komiteta profsoyuza rabochikh machinostroyeniya (for Mikhaylova).

(Machinery industry—Technological innovations)
(Industrial safety) (Industrial hygiene)

Obstacles on the path of a project. Sov. profsoiuzy 17 no.20:38 (MIRA 14:9)
1. Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya. (Industrial plantsDesign and construction)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310014-2"

IGNATOK, A.I.; TSYGANOV, M.A.; KUGINIS, B.L.; KHRANTSOV, V.A.;
DUKHANIN, Yu.A., retsenzent; SIMONS, D.Ya., red.;
POCHTAREVA, A.V., red.izd-va; DOBRITSYNA, R.I., tekhm.red.;
SMIRNOVA, G.V., tekhm. red.

[Manual on safety engineering and industrial hygiene in machinery industry enterprises] Spravochnik po tekhnike bezopasnosti i proizvodstvennoi sanitarii dlia predpriiatii mashinostroeniia. Sost. A.I.Ignatok, i dr. Moskva, Mashgiz, 1962. 591 p. (MIRA 15:2)

(Machinery industry—Safety measures)

(Machinery industry—Hygienic aspects)

TSYGANOV, Mikhail Nikolayevich; KRASHENINIKOVA, T.M., red.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA, V.V., tekhn.red.

[General photography and special types of photography] Obshchaia fotografiia i spetsial nye vidy fotografii. Moskva, Gosgeoltekhizdat, 1963. 363 p. (MIRA 17:2)

.

TSTGANOV, M. N.

Spravochnik (posobie) aerofotolaboranta. Moskva, Geodezizdat, 1943.
183 p., illus., diagrs.
Title tr.: Handbook for laboratory workers in aerial photography.

TR810.T8

SO: Feronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

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PHASE II

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 210 - II

BOOK

TSYGANOV, M. N.

Call No.: AF582721

Author:

Full Title: PRINCIPLES OF PHOTOGRAPHY AND AERIAL PHOTOGRAPHY

Transliterated Title: Osnovy fotografii i aerofotografii

Publishing Data

Originating Agency: None

Publishing House: Publishing House for Geodetical and Cartographic

Literature

Date: 1952

No. pp.: 295

No. of copies: 5.000

Editorial Staff

Editor: None

Editor-in-Chief: None

Tech. Ed.: Appraiser:

None None

Text Data

Coverage:

This book brings basic information covering photographic optics and chemistry, the principles of sensitometry,

and the negative and positive processes. One short chapter

of 14 pages deals with the general characteristics of

aerial exposures.

Preface:

This book is intended as a textbook to improve the qualifications of workers in air photography laboratories. It can also be used by air photographers, photogrammetrists and

topographers.

1/9

AID 210 - II

The book is dedicated basically to photographic processes and in particular to their application to aerophotography. The approach to these problems is theoretical without description of equipment.

The first two chapters deal with the parts of optics and chemistry necessary to understand the basic theory of photographic processes. Photographic sensitometry is treated more extensively (Ch. IV) and its application to light-sensitive materials is discussed. The main stress of the book is on the description of processes for the treatment of photomaterials, on photo emulsion and photo-optics and on special methods of photofinishing. Color photography is treated only slightly.

Introduction: None

Abstract:

This book is a theoretical, rather popular explanation of basic photographic principles and processes. In spite of the words "aerial photography" in its title, the book brings very little information on this topic. There is only a short chapter dealing with the characteristics of light conditions in aerial photography. The treatment is also very popular. Therefore this book could not be of value to specialists. 2/9

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snovy ro	tografii i aerofotografii	/ID 510 - II
	CONTENTS	PAGE
Pref		5
Ch. I	Information on Optics The nature of photography; laws governing the pr gation of light; basic photometric conceptions; spectrum; the nature of light; color of objects; laws of temperature radiation and sources of lig lenses and their properties; basic characteristi of a photographic lens; photographic lenses; bas information on the conception of light.	ht;
Ch. II	Basic Information on Chemistry Oxides, acids, bases and salts; main non-organic substances used in photography; water and hydrosolutions; the concept of electrolytic dissociat and of the value pH; concept of the oxidizing-regenerating reactions; photochemical reactions; general information on organic substances; some representatives of various classes of organic conpounds; benzene and its derivatives; organic developers; description of organic developers.	ion main
Ch. III	Photographic Emulsions General information on a photographic emulsion as 3/9	105 nd

BHO	/у т	otografii i aerofotografii	AID	210 - II
		an autobacción de la		PAGE
		on substances used for its production; scheme of the production of photographic emulsion; spectra	f	
		sensitivity of an emulsion; composition of the		
		Ilght-sensitive layer: formulae of emulaions for	r	
Ch	IV	reproductive and diapositive photoplates	,	
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		opacity, optical density: set of sensitometrical	1	
		apparatus; performance of sensitometrical tests	:	
		characteristic curve; series of characteristic	-	
		curves; the basic sensimetrical characteristics and their definition; practical importance of		
		sensimetrical characteristics: determination of		
		spectral sensibility (color sensibility) of phot	co	
		materials; physical properties of a developed image; the sensibility of photographic paper.		
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		Negative light sensitive materials; phtographic		100
h.	VI	paper. Characteristics of Lighting Conditions of Object		
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	tografii i aerofotografii AID	210 -	
Oh VITT	The exposure of a landscape; spectral reflecting capacity of landscape objects; air haze; determination of time of exposure in aerial photography.	PAGE	j
Ch. VII	The Negative Process Latent image and its development; general characteristics of a developer; formulae of developers; methods of developing; developing with desensi-	191	
	tizing; development of under and over-exposed negatives; fine-grain development; development at raised and lowered temperatures; requirements of fixing solutions and formulae for same; speed of		
	solutions; washing and drying of negatives; preparation of developing and fixing solutions in		
	large quantities; failures in treatment of a negative process; sensitometrical appraisal of photographic quality of negatives and sensitometrical control of the developing process.		
Ch.VIII Ch. IX	Reduction and Intensification of Negatives Positive Process Nature of the printing process from a sensito- metrical point of view and the transfer of details	243 259	

SHOV	/y 10t		D 210 - II PAGE
		of luminance in the positive; selection of photographic paper according to the negative and to the exposure by printing; developing, fixing, washing and drying of prints; main defects in prints; photographic layers with iron salts and with diazo-compounds.	
Ch.	х	Special Methods of Treatment of Photographic Materials Methods of very rapid treatment of photographic materials at high temperatures; rapid process of obtaining simultaneously a negative and a positive without application of the usual hydrosolutions; the reversal process and method of simultaneously obtaining a positive; simultaneous developing and fixing; physical development.	273
h. J		Elementary Information on Color Photography Color multilayer photographic materials; scheme for obtaining a color negative photographic image scheme for obtaining a color positive photographi image; color development.	286 ;
	Lite	erature 6/9	295

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310014-2"

AID 210 - II

BIBLIOGRAPHY (after 1939)

- Alekseyev, S. S. Tsvetovedeniye (Science of Colors), Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo legkoy promyshlennosti, Moskva, 1949
- 2. Baranov, G. S. Voprosy teorii fotograficheskogo vosproizvedeniya (Questions Relating to the Theory of Photographic Reproduction), Goskinoizdat, Moskva, 1949
- 3. Blyumberg, I. B. Obrabotka kinoplenok i fotoplenok (Treatment of Cinema Films and Photo Films), Goskinoizdat, Moskva, 1950
- 4. Blyumberg, I. B. Khimiko-fotograficheskiye protsessy obrabotki kinoplenki (Chemical Photographical Processes in Treatment of Cinema Films), Goskinoizdat, Moskva, 1949
- 5. Bokinik, Ya. I. Teoriya i praktika tsvetnoy fotografii (Theory and Practice of Color Photography), Goskinoizdat, Moskva, 1941
- Glinka, N. A. Obshchaya khimiya (General Chemistry), Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo khimicheskoy literatury, Moskva, 1949
- 7. Gorokhovskiy, Yu. N. Metody fotograficheskoy sensitometrii (Methods of Photographic Sensitometry), Goskinoizdat, Moskva, 1948
- 8. Dantsiger, A. S. Elektricheskaya lampochka (Electrical Lamp), Gosudarstvennoye izdatel'stvo tekhniko-teoreticheskoy literatury,
 Moskva, 1949
 7/9

AID 210 - II

- 9. Iordanskiy, A., Mertts, K. A., Ovechkis, N., and Chel'tsov, V. Tsvetnaya fotografiya (Color Photography), Goskinoizdat, Moskva, 1949
- 10. Istomin, G. A. Sensitometriya aerofotomaterialov i aeroeksponometriya (Sensitometry of Aerial Photography Materials and Aerial Exposure), Voyennoye izdatel'stvo ministerstva vooruzhennykh sil Soyuza SSR. Moskva, 1949
- 11. Katalog-spravochnik laboratornykh priborov i sborudovaniya, vypusk 31 (Catalog Manual of Laboratory Apparatus and Equipment, Issue 31), Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'nov literatury. Moskva. 1950
- mashinostroitel'noy literatury, Moskva, 1950
 12. Kirillov, N. I. Fiksirovaniye i promyvka fotograficheskikh materialov (Fixing and Washing of Photographic Materials), Goskinoizdat, Moskva, 1948
- 13. Lyuministsentnyye lampy (Luminescent Lamps), Byuro tekhnicheskoy informatsii. Moskva, 1950
- 14. Lyalikov, K. S. Teoriya fotograficheskikh protsessov (Theory of Photographic Processes). Goskinoizdat, Moskva, 1947
- Photographic Processes), Goskinoizdat, Moskva, 1947
 15. Mertts, K. A. Tsvetnaya fotografiya (Color Photography), Goskinoizdat, Moskva, 1949

8/9

AID 210 - II

16. Smorgonskiy, L. M. Uchebnik organicheskoy khimii (Textbook on Organic Chemistry), Goskhimizdat, Moskva, 1945

17. Trudy Tsentral'nogo nauchno-issledovatel'skogo instituta geodezii, aeros"yemki i kartografii, vypusk 79 (Transactions of the Central Scientific Research Institute of Surveying, Aerial Photography and Cartography, issue 79). Geodezizdat Moskya 1050

and Cartography, issue 79), Geodezizdat, Moskva, 1950
Trudy Tsentral'nogo nauchno-issledovatel'skogo instituta geodezii, aeros"yemki i kartografii, vypusk 82 (Transactions of the Central Scientific Research Institute of Surveying, Aerial Photography and Cartography, issue 82), Geodezizdat, Moskva, 1951

19. Tsyganov, M. N. Fotografiya i aerofotografiya (Photography and Aerial Photography), Geodezizdat, Moskva, 1949

20. Yashtold-Govorko, V. A. Melkozernistoye proyavleniye (Fine-Grain Development), Goskinoizdat, Moskva, 1949
Facilities: Central Scientific Research Institute of Surveying,

Air Photography and Cartography Available: A.I.D., Library of Congress.

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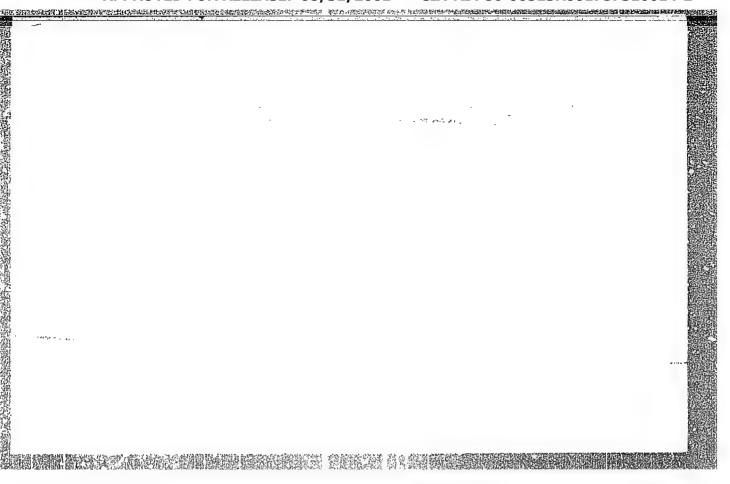
MIKHATLOV, V.Ya.; TSYGAMOV, M.N.

Color photographic process in aerial photography. Trudy TSWIIGAIK no.107:5-48 '55. (MLRA 9:6)

(Color photography) (Photography, Aerial)

TSIGANOV, Hikhail Nikolayevich; CHEL'TSOV, V.S., redaktor; KOMAR'KOVA, L.M., redaktor izdatel'stva; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Principles of color photography and aerial photography] Osnovy tsvetnoi iotografii i aerofotografii. Moskva, Izd-vo geodez. lit-ry, 1956. 175 p. (MLRA 9:10) (Color photography) (Photography, Aerial)

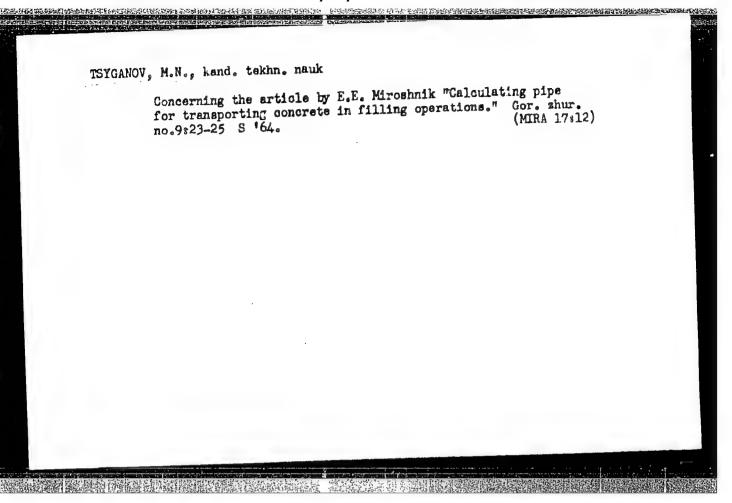


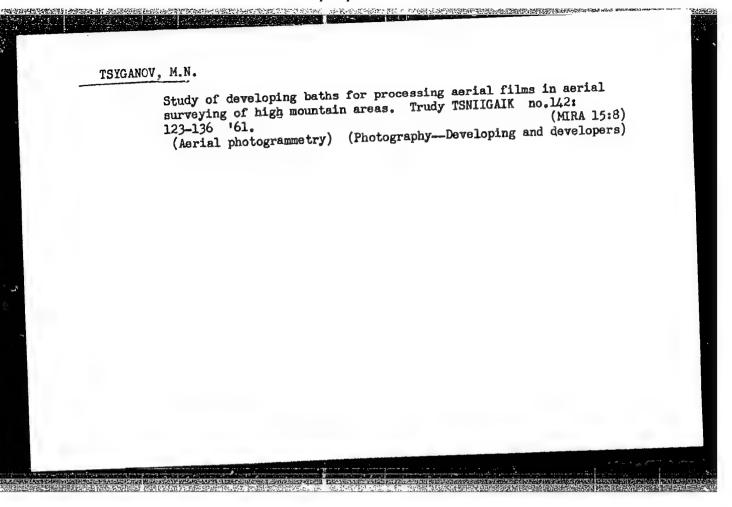
TSYGANOV Mikhail Nikolavarich; IOFIS, Ye.A., kandidat tekhnicheskikh nauk; redaktor; ZHERDETSKAYA, N.N., redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor.

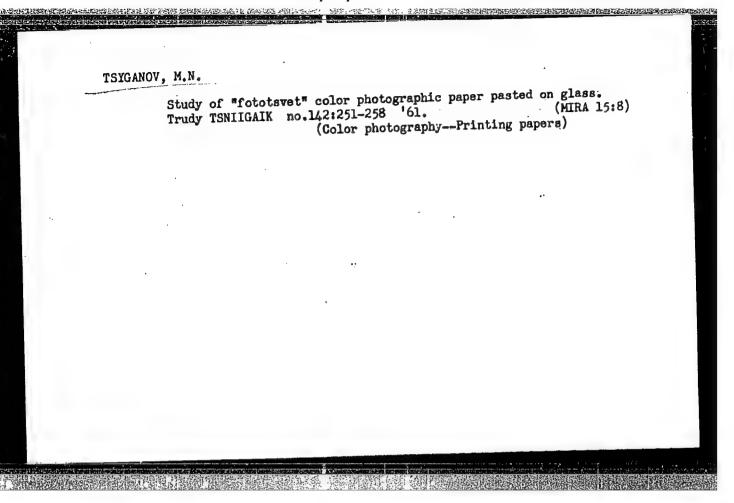
[Bliminating defects in photographs] Ustranenie defektov fotograficheskogo izabrazheniia. Pod wed. B.A. Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1957. 80 p. (Biblioteka fotoliubitelia, no.14) (MIRA 10:11) (Photography)

URMAKHER, Loonid Samuilovich; ROMANOV, D.A., kand. tekhn. nauk, dota., retsenzent; TSYGANOV, M.N., kand. tekhn. nauk, retsenzent; APENKO, M.I., kand. tekhn. nauk, red.; SHAMAROVA, T.A., red. izdva; SUNGUROV, V.S., tekhn. red.

[Optics of photographic and aerial photogrammetric instruments]
Optika fotograficheskikh i aérofotogrammetricheskikh priborov.
[n.p.] Izd-vo geodez. lit-ry, 1962. 215 p. (MIRA 15:12)
(Photographic optics) (Aerial photogrammetry)





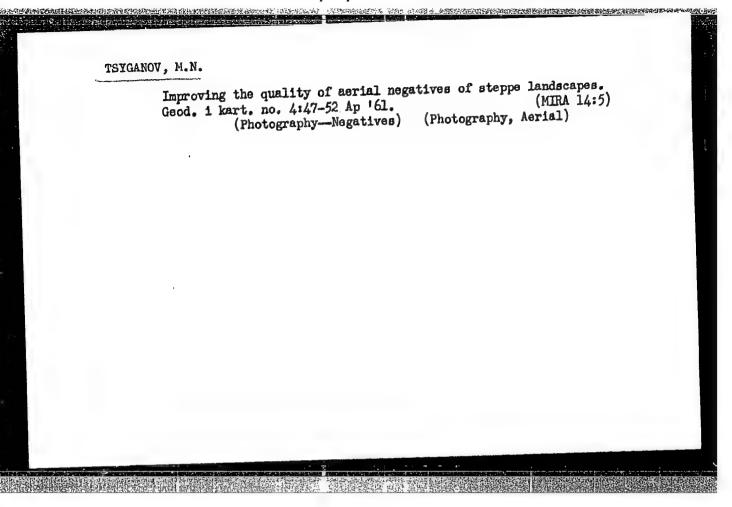


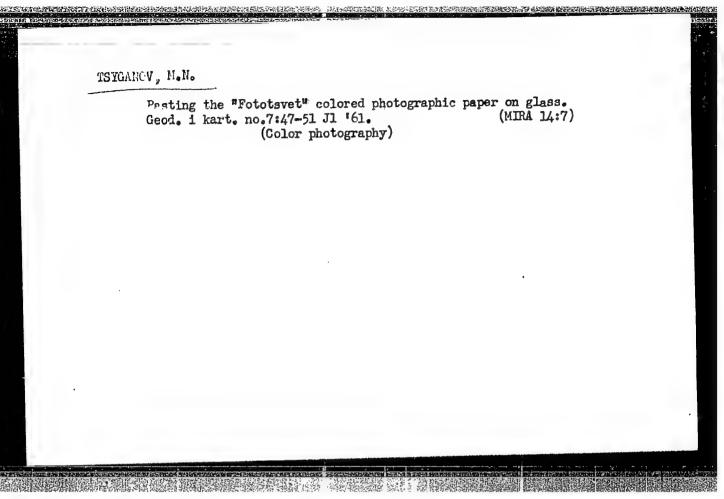
KUDERSKIY, Ivan Grigor'yevich; TSYGANOY, M.N., red.; VASIL'YEVA, V.I., red.izd-va; SUNGEROY, V.S., tekhm.red.

[Instructions on safety measures in the performance of photogrammetric and photographic laboratory work] Pamiatka po tekhnike bezopasnosti pri vypolnenii fotolaboratornykh i fotogrammetricheskikh rabot. Moskva, Izd-vo geodez.lit-ry, 1961. 55 p. (MIRA 15:4)

(Iaboratories—Safety measures) (Photography)

(Photogrammetry)





PHASE I BOOK EXPLOITATION

807/5361

Tsyganor, Mikhail Nikolayevich

Osnovy fotografii i aerofotografii (Principles of Photography and Aerial Photography) Moscow, Geodezizdat, 1960. 272 p. 6,000 copies printed.

Ed.: K.I. Markhilevich; Tech. Ed.: V.V. Romanova; Ed. of Publishing House; L.M. Komar'kova.

PURPOSE: This book is intended for technical personnel of topographic, geodetic, geological, and aerial survey expeditions. It may also be used by other technicians utilizing photographic methods for professional purposes.

CCVERAGE: The book contains information on optics, the fundamentals of sensitometry, the characteristics of black-and-white and color photographic materials, and ground photography; it discusses negative and positive processes for black-and-white and color materials, problems of aerial photography, and the processing of aerial black-and-white and color photographs. No personalities are mentioned. There are 35 references, all Soviet.

·Card 1/9-

TSYMANOV, Mikhail Nikolayavich; MARKHILEVICH, K.I., red.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Fundamentals of general and serial photography] Osnovy fotografii aerofotografii. Moskva, Izd-vo geodez.lit-ry, 1960. 272 p. (MIRA 14:3)

(Photography) (Photography, Aerial)

The real object is cooperation! Okhr.truda i sots.strakh. 3 no.3; 58-59 Mr '60. (MIRA 13:7)
1. Glavnyy tekhnicheskiy inspektor TSentral nogo komiteta profsoyuza rabochikh mashinostroyeniya. (Machinery industryHygienic aspects)

Atheistic education of students in biology lessons.

Atheistic education of students in biology lessons.

Biol. v shkole
(MIRA 15:1)

(ATHEISM_STUDY AND TEACHING)

TSYGANOV, R.Ya., dots, kand.tekhn.nauk

Some remarks on designing evaporation reservoirs. Avt.dor.
23 no.1:21 Ja '60. (MIRA 13:5)

(Moisture)

3(4)

AUTHORS: Miliner, V. S., Candidate of Technical SOV/6-59-3-4/16

Sciences, Tayganov, M. N.; Candidate of Technical Sciences

TITLE: Experience in the Application of the Method of Nonsharp Masks

in the Production of Contact Prints and Diapositives (Opyt primeneniya sposoba nerezkikh masok pri izgotovlenii kontakt-

nykh otpechatkov i diapozitivov)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 3, pp 26-31 (USSR)

ABSTRACT: To obtain a qualitatively good positive photograph, the method

of the nonsharp masks as devised by I. A. Eden (Iden)(Ref 1) and described by V. Ya. Mikhaylov (Ref 2) for the production of contact prints and diapositives of high-mountain regions is

specially useful. The method was employed in the TsNIIGAik. The works were carried out by the laboratory assistants

T. I. Kalmykova and G. A. Golubkova under the supervision of M. N. Tayganov. Some negatives were contrasting to such an extent as to require strong preliminary clearing, otherwise no positive results could be obtained from masking. The combination of the negative results are recombinations.

tion of the nonsharp masking method with a preliminary strong clearing of the negative makes it possible to observe a great

Card 1/3 number of details. With a view to prove the advantages offered

Experience in the Application of the Method of SOV/6-59-3-4/16 Nonsharp Masks in the Production of Contact Prints and Diagositives

by the masking method, the longitudinal and transverse parallaxes were measured with the precision stereometer SM-3, by the aid of aerial photographs, that were evaluated according to different methods. The results are tabulated. The measurements were carried out by an observer, the technician and photogrammetrist N.F. Sotova. The data obtained clearly show that the accuracy of stereoscopic measurements is almost doubled by an appropriate photographic process combined with the application of the nonsharp masking method. This remains true also in those cases where objects are situated in most difficult areas for the observer. Recommendations are made for the photographic processing of aerial photography in highmountain regions, with respect to the clearing of aerial photonegatives and to the preparation of nonsharp masks as well as of positives under the utilization of masks. The only strongly clearing agent is the one using ammonium persulphate. The diapositive obtained from the aerial photonegative serves as mask. On combining the diapositive with the aerial photonegative during illumination the contrast in the negative decreases. To simplify the combination of the aerial photo-

Card 2/3

Experience in the Application of the Method of 50V/6-59-3-4/16 Nonsharp Masks in the Production of Contact Prints and Diapositives

negative with the mask, the latter is made nonsharp and the minute details are not worked out. There are 4 tables and 2 references, 1 of which is Soviet.

Card 3/3

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TSYGANOV, Mikhail Stepanovich, professor; KRAVCHENKO, Z.I., red.;
GUREVICH, M.M., tekha.red.

[Soil science] Pochvovedenie. Meskva, Gos. izd-ve sel'khoz.
lit-ry, 1958. 254 p. (MIRA 12:1)

(Soils)

TSYGANOV, M. S.	
Chemical Abst. Vol. 48 No. 6 Mar. 25, 1954 Soils and Fertilizers	The age of the land as a factor of soil formation and its reflection in the soils of Western Siberla. Age: Lust's Voronezh. Poskroedenie 1953. No: 0: 09-02. Age: Lust's Voronezh. Poskroedenie 1953. No: 0: 09-02. -Ts. presents data with reference to the content and distribution of org. matter, N. P. R.O., and H.O. soi. mineral substances in the soils of Western Siberia to illustrate the general trends in the evolution of these soils. Those which in their evolution have gone through a development in more hunded conditions of climate are the soils of a greater age than those of a less humid climate and are of a younger age, and are found in a lower vertical zonation. J. S. Jose
	10-14-54 M

TSYGAMOV, N. G.

Steppes

Problem of the lesico tion of steppes. Pochvovedenie no. 4 (1952)

Monthly List of Russian Accessions. Library of Congress, August 1952. UNCLASSIFIED

TSYGANOV, M. S.

Steppes

Problem of the desiccation of sterpes. Pochvovedenie no. 4 (1952)

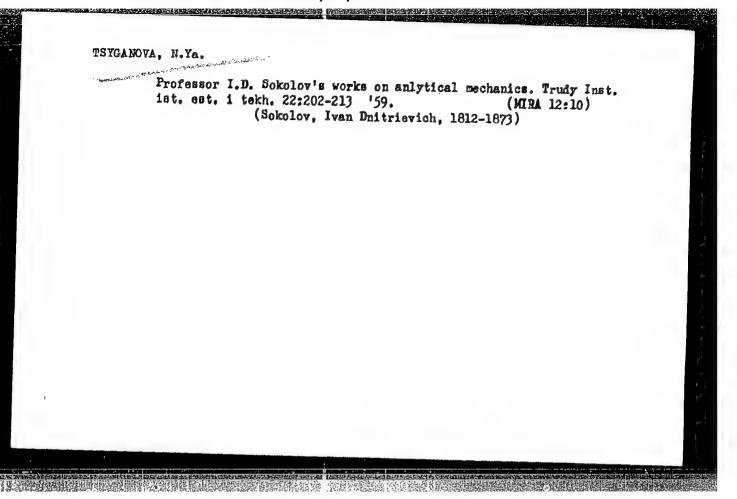
9. Monthly List of Russian Accessions, Library of Congress, August 1953, Unclassified.

。 (一),一个一个一个人,我们就是一个人,我们们一个人,我们们们的一个人,一个一个人,一个人,他们们就是一个人,一个人,一个人,一个人,他们们就是一个人,我们们

TSYGANOV, M.S., prof., doktor sel'skokhozyaystvennykh nauk; TROSHCHIY, A.I.

Cutting slit furrows across slopes helps to increase grass yields. Zemledelie 8 no.10:61-65 0 '60. (MIRA 13:10)

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Pastures and mealows) (Tillage)



TSYGANOV O.I.

Treating chronic tonsillitis with ultrahigh-frequency currents. Ped., akush. i gin. 20 no.1:31 58. (MIRA 13:1)

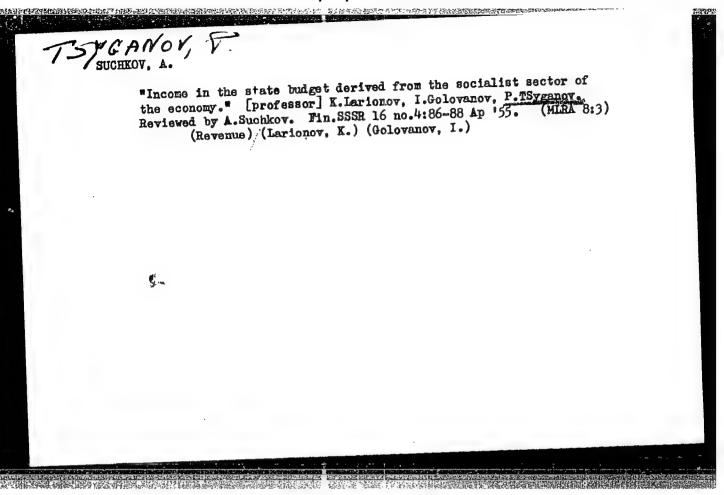
1. Poliklinicheskoye otdeleniye Khersonskoy detskoy bol'nitsy (glavnyy vrach - B.B. Medvednik).

(TONSILS--DISEASES) (DIATHERMY)

THE STATE OF THE PROPERTY OF T

TSYGANOV, P.

Dokhody gosudarstvennogo byudzheta ot sotzialisticheskogo khozyaystva (Income of state budget from socialist economy, by) K. Iarionov, I. Golovanov, F. Tsyganov. Moskwa, Gosfinizdat, 1954. 216 p. tables.



TSYGANOV, P.

4261. TSYGANOV, P. -- Dokhody gosudarstue nnogo byudzheta ot sotsialisticheskogo khozyaystva. (Ucheb. posobiye dlyz fin. i fin. - Kreditnykh tekhnikumou). M. Gosfinizdat, 1954. 216 c. 23 sm. 15,000 ekz. (1-y zavod 1-10 gys.) 5p. 75k. V per.-Na per plete avt. ne ukazany. -- (55-405)p

SO: Knizhnaya Letopsis', Vol. 1, 1955

LARIONOV, K., professor; GOLOVANOV, I.; TSYGANOV, P.; KRIVENKO, A., otvetstvennyy redaktor; YEHEMEYEVA, G., redaktor; DENISOVA, O., tekhnicheskiy redaktor.

[National budget revenue from a socialist economy] Dokhody gosudarst-vennogo biudzheta ot sotsialisticheskogo khoziaistva. Moskva, Gosfinizdat, 1954. 216 p.

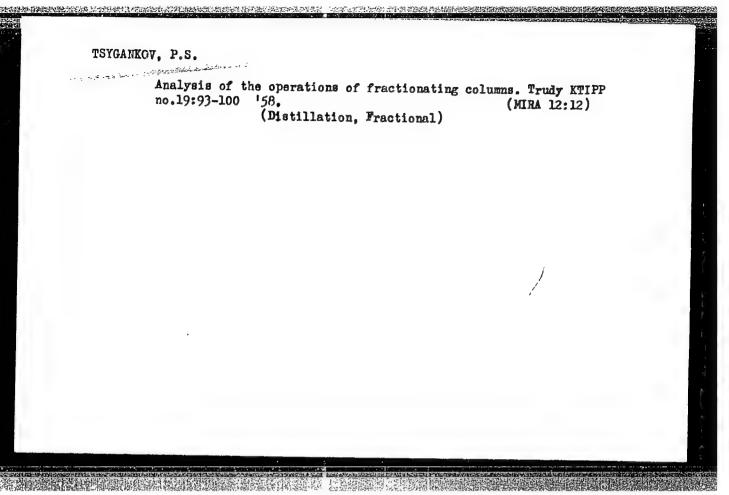
(Internal revenue)

TSYGANKOV, P.

All-Union Interuniversity Conference on the Theory and Practice of Rectification in the Chemical and rood industries.
ucheb. zav.; khim. i khim. tekh. 4 no. 2:328-332 61.
(MIRA 14:5) Rectification in the Chemical and Food Industries. Izv. vys.

1. Sekretar' Orgkomiteta Vsesoyuznoy mezhvuzovskoy konferentsii po teorii i praktike rektifikatsii v khimicheskoy i pishchevoy promyshlennosti.

(Distillation, Fractional -- Congresses)



STABNIKOV, V.N.; TSYGANKOV, P.S.

Possibility of using packed columns for distilling and rectifying alcohol. Spirt.prom. 22 no.2:4-7 '56. (MLRA 9:8)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti imeni Mikoyana.

(Distillation apparatus)

TSYGANKOV, P.S.

Increasing the output of alcohol of the highest purity. Spirt. prom. 22 no.2:21-22 '56. (MLRA 9:8)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti imeni Mikoyana.
(Alcohol)

IOZOVOY, D.A., kand. tekhn. nauk; KOSTIN, A.A., inzh.; OSTROVSKIY, A.;

TSYGANOV, R.; CHVANOV, V.

Reviews and bibliography. Avt. dor. 28 no.4:30-42 Ap '65.

(MIRA 18:5)

TSYGANOV, R.

Using the method of electromechanical analogies in road design. Avt. dor. no.10:8 0 '64. (MURA 17:12)

TSYGANOV, R.Ya., kand.tekhn.nauk

Take into consideration physicomechanical properties of soils.

Avt.dor. 25 no.7:20-21 Jl '62. (MIRA 15:8)

(Soil mechanics)

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TSYGAROV, R. Ta., dots., kand. tekhn. nauk

Valuable aid ("Automobile road intersections" by A.A.Milashechkin.
Reviewed by R. IA. TSyganov). Avt. dor. 21 no. 7:29 J1 '58.

(Roads--Design)

(Milashechkin, A.A.)

TSYGANOV, R.Ya.; ULAZOVSKIY, V.A., red.; TOKIN, A.N., red.; KADIL'NIKOVA, A.F., red.; KURDYUKOV, G.V., red.; KOVRIN, Ye.I., red.; BARANSKIY, A.V., red.

[Introducing new equipment and the achievements of science into industry] Vnedrenie novoi tekhniki i dostizhenii nauki v proizvodstvo. Volgograd, 1963. 215 p.

(MIRA 18:3)

1. Volgograd. Institut inzhenerov gorodskogo khozyaystva.

TSYGANOV, R.Ya.

Evaluating the causes of the development of landslide phenomena by the correlation method. Izv. vys. ucheb. zav.; geol. i razv. 7 no.ll:131 N 164. (MIRA 18:5)

1. Volgogradskiy institut inzhenerov gorodskogo khozyaystva.

SVISTUNOV, V., assistent; TSYGANOV, S.

Expand and improve food supply to the fields. Obshchestv. pit. no.7:27-28 J1 '62. (MIRA 15:10)

1. L'vovskiy torgovo-ekonomicheskiy institut (for Svistunov).
2. Starshiy instruktor otdela obshchestvennogo pitaniya Vinnitskogo oblastnogo soyuza potrebitel'skikh kooperativov (for TSyganov).

(Vinnitsa Province-Restaurants, lunchrooms, etc.)

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	TITLE: I	mplementation of	low-volume spre	aying .			
	SOURCE:	Zashchita rasteni	y, no. 6, 1966,	6-7			
	TOPIC TACE AMINE C ABSTRACT:	S: herbicide, ac SALT, ESTER,	rial spraying, Sobium Co	dichloropheno mpound	exyacetic acid,	WEED KILLER	
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TO THE TREE PROPERTY OF THE PR

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SOURCE CODE: UR/0076/66/040/011/2854/2859

AUTHOR: Tsyganov, S. A.; Bakhman, N. N.

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITIE: Effect of ratio of components on the combustion rate of condensed mixtures

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 11, 1966, 2854-2859

TOPIC TAGS: combustion rate, perchlorate, plexiglass, polystyrene, polyformaldehyde plastic, polypropylene plastic, graphite, tungsten

ABSTRACT: The combustion of mixtures of NH₄ClQ₄ with fine powders of plexiglass, polystyrene, polyformaldehyde, polypropylene, urotropin, and bitumen and also mixtures of KClQ₄ with plexiglass, polypropylene, urotropin, dextrin, graphite, and tungsten was studied in a 2-liter bomb in nitrogen. The maximum of the combustion rate u_{max} for mixtures of the two oxidizers with volatile mixtures (dextrin, urotropin, plexiglass) was found to lie relatively close to stoichiometry, and for mixtures with non-volatile fuels (graphite, tungsten), to shift toward excess fuel. As the particle size of the oxidizer increases, there is a slight but distinct displacement of u_{max} toward excess fuel. As the pressure is increased in the case of NH₄ClQ₄ + volatile fuel mixtures, u_{max} is not changed appreciably, but in the case of KClQ₄ + volatile

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